# Lab 03: Black Box Test Plan

## Test Overview

To run the tests:

1. Right click on StudentDirectoryPanel class in the Package Explorer.
2. Select Run As > Java Application

All tests files are located in the test-files/ folder.

Note that Tests 2-15 do not indicate to close the GUI and can be run on the same GUI if there are no failures. If there are failures, use the preconditions as indicated.

.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected Results** | **Actual Results** |

|  |  |  |  |
| --- | --- | --- | --- |
| Test 1: Invalid File | Preconditions: None  Run StudentDirectoryPanel.  Click **Load Student Directory**  In the FileChooser dialog select: test-files/invalid\_student\_records.txt  Click **Select**  *Check results*  Close GUI | WolfSchdulerGUI loads  Student Directory is empty  Student Information only shows labels | WolfSchduler loads  Student Directory is empty  Student Information only shows labels |
| Test 2: Valid File  (Modified) | Run StudentDirectoryPanel.  Click **Load Student Directory**  In the FileChooser dialog select: test-files/ student\_records.txt  Click **Select**  *Check results* | WolfSchdulerGUI loads  Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student Information only shows labels | WolfSchdulerGUI loads  Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student Information only shows labels |
| Test 3: New Directory  (Modified) | Preconditions: Test 2 has passed  Click **New Student Directory**  *Check results*  Click **OK** | Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   After clicking **New Student Directory**,  Student Directory is empty  Student Information only shows labels | Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   After clicking **New Student Directory**,  Student Directory is empty  Student Information only shows labels |
| Test 4: Add – No Data | Preconditions: Test 3 has passed  Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  A pop-up dialog stating “Max credits must be a positive number between 3 and 18.” is displayed. | Student Directory is empty  Student Information only shows labels  A pop-up dialog stating “Max credits must be a positive number between 3 and 18.” is displayed. |
| Test 5: Remove – No Selection  (Modified) | Preconditions: Test 2 has passed  Click **Remove Student**  *Check results*  Click **OK** | Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student Information only shows labels  A pop-up dialog stating “No student selected.” is displayed. | Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student Information only shows labels  A pop-up dialog stating “No student selected.” is displayed. |
| Test 6: Add – valid student | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results* | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  Student Directory contains 1 students   * John, Doe, jdoe | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  Student Directory contains 1 students   * John, Doe, jdoe |
| Test 7: Add – duplicate student id | Preconditions: Test 6 has passed  Enter the following in the Student Informationn section:   * First Name: test * Last Name: test * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory contains 1 students   * John, Doe, jdoe   After clicking **Add Student**  A pop-up dialog stating “Student already in system.” is displayed.  Student Directory contains 1 students   * John, Doe, jdoe | Student Directory contains 1 students   * John, Doe, jdoe   After clicking **Add Student**  A pop-up dialog stating “Student already in system.” is displayed.  Student Directory contains 1 students   * John, Doe, jdoe |
| Test 8: Remove – With Selection | Preconditions: Test 6 has passed  Select John Doe in the Student Directory  Click **Remove Student**  *Check results* | Student Directory contains 1 students   * John, Doe, jdoe   After clicking **Remove Student**  Student Directory is empty  Student Information only shows labels | Student Directory contains 1 students   * John, Doe, jdoe   After clicking **Remove Student**  Student Directory is empty  Student Information only shows labels |
| Test 9: Add – non matching passwords | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw2 * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Passwords do not match.” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw2 * Max Credits: 18 | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Passwords do not match.” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw2 * Max Credits: 18 |
| Test 10: Add – invalid email | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsuedu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid email” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsuedu * Password: pw * Repeat Password: pw * Max Credits: 18 | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid email” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoe@ncsuedu * Password: pw * Repeat Password: pw * Max Credits: 18 |
| Test 11: Add – invalid email2 | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoencsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid email” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoencsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid email” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: jdoe * Email: jdoencsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 |
| Test 12: Add – empty last name | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: John * Last Name: * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid last name” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid last name” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 |
| Test 13: Add – empty first name | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid first name” is displayed.  Student Directory is empty  Student Information shows:   * First Name: * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid first name” is displayed.  Student Directory is empty  Student Information shows:   * First Name: * Last Name: Doe * ID: jdoe * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 |
| Test 14: Add – empty ID | Preconditions: Test 3 has passed  Enter the following in the Student Informationn section:   * First Name: John * Last Name: Doe * ID: * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18   Click **Add Student**  *Check results*  Click **OK** | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid id” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 | Student Directory is empty  Student Information only shows labels  After clicking **Add Student**  A pop-up dialog stating “Invalid id” is displayed.  Student Directory is empty  Student Information shows:   * First Name: John * Last Name: Doe * ID: * Email: jdoe@ncsu.edu * Password: pw * Repeat Password: pw * Max Credits: 18 |
| Test 15: Save  (Modified) | Preconditions: Test 2 has passed  Click **Save Student Directory**  In the FileChooser dialog select: test-files/lab3\_records.txt  Click **Save**  *Check results* | Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student Information only shows labels  In Eclipse, right click on the WolfScheduler project and select **Refresh.**  Open the test-files folder and open lab3\_records.txt in the editor.  The contents should be:  Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,18  Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14  Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,12  Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,3  Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14  Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,11  Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,15  Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,5  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 | Student Directory contains 10 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efrost * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone   Student Information only shows labels  In Eclipse, right click on the WolfScheduler project and select **Refresh.**  Open the test-files folder and open lab3\_records.txt in the editor.  The contents should be:  Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,18  Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14  Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,12  Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,3  Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14  Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,11  Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,15  Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,5  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 |